

CLAIMS

1. A spring-loaded operating mechanism for a rectilinear motion circuit-breaker, for performing an open-close-reopen cycle, said mechanism operating on an operating rod (3) of the circuit-breaker and comprising a closing spring (10) and an opening spring (11), said opening spring (11) operating on said operating rod (3), characterized in that the closing spring (10) operates on the end of a crank (25) whose other end is connected to a shaft (27) fastened to a flywheel (26) and on which is mounted a closing cam (28) which cooperates with a roller (17) on said operating rod (3), in that a closing pawl (34) retains the closing spring (10) in a compressed position, opening this pawl releasing the closing spring (10) and causing rotation of said cam (28) in the direction in which it closes the circuit-breaker and rearms the opening spring (11), and in that it comprises a rearming motor (29) coupled by a freewheel mechanism (32) to said shaft (27), a pawl (33) for triggering opening retaining the operating rod (3) against the force of said opening spring (11) in the closed position of the circuit-breaker and being adapted to receive an opening command.

2. A spring-loaded operating mechanism according to claim 1, characterized in that said closing and opening springs are rectilinear and coaxial with said operating rod (3).

3. A spring-loaded operating mechanism according to claim 1 or claim 2, characterized in that said opening spring (11) is mounted around said operating rod (3) in a fixed cylindrical casing (5) connected to the circuit-breaker, between a fixed bottom (12) of the casing and a bearing member (13) connected to the operating rod in the vicinity of its free end.

4. A spring-loaded operating mechanism according to claim 3, characterized in that said closing spring (10) surrounds said cylindrical casing and bears on the one hand against a shoulder (9) of said casing (5) and on the other hand against a ring (22) sliding along said casing, at least one link (23) being articulated on the one hand to said sliding ring (22) and on the other hand to the end of said crank (25).

5. A spring-loaded operating mechanism according to any of claims 1 to 4, characterized in that said roller (17) is situated at the free end of said operating rod (3).

6. A spring-loaded operating mechanism according to claim 5, characterized in that said operating rod (3) is surrounded by a hydraulic damper which comprises a chamber (35) in the form of a hollow cylinder through the bottom and the lid of which said operating rod passes and a piston (36) fastened to said operating rod.